(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 0 879 935 A3

(12) EUROPEAN PATENT APPLICATION

(86) Date of publication A2:
10.02.1999 Bulletin 1999/06

(43) Date of publication A3:
25.11.1998 Bulletin 1998/48

(21) Application number: 97307807.4

(22) Date of filing: 02.10.1997

(51) Int. Cl.[6]: E21B 43/28, E21B 43/04, E21B 43/267, E21B 43/02

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:
AL LT LV RO SI

(30) Priority: 19.05.1997 US 858312

(71) Applicant:
Halliburton Energy Services, Inc.
Duncan, Oklahoma 73536 (US)

(72) Inventors:
- Weaver, Jim D.
  Duncan, Oklahoma 73533 (US)
- Nguyen, Phillip D.
  Duncan, Oklahoma 73533 (US)
- Stanford, James R.
  Duncan, Oklahoma 73533 (US)
- Bowles, Bobby K.
  Comanche, Oklahoma 73529 (US)
- Wilson, Steven R.
  Duncan, Oklahoma 73533 (US)
- Parker, Mark A.
  Duncan, Oklahoma 73533 (US)
- Dewprashad, Brahmadeo
  Lawton, Oklahoma 73501 (US)

(74) Representative:
Wain, Christopher Paul et al
A.A. THORNTON & CO.
Northumberland House
303-306 High Holborn
London WC1V 7LE (GB)

(54) Method of controlling fine particulate flowback in subterranean wells

(57) A wellbore penetrating a subterranean formation is treated with a fluid whereby fine particulate flowback is reduced or prevented. The method includes the steps of providing a fluid suspension including a mixture of a particulate coated with a tackifying compound, pumping the suspension into a subterranean formation and depositing the mixture within the formation whereby the tackifying compound retards movement of at least a portion of any fine particulate within the formation upon flow of fluids from the subterranean formation through the wellbore. Alternatively, the tackifying compound may be introduced into a subterranean formation in a diluent containing solution to deposit upon previously introduced particulates to retard movement of such particulates and any fines subject to flow with production of fluids from the subterranean formation.

EP 0 879 935 A3

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 97 30 7807

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-12-1998

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5501274 A	26-03-1996	EP 0735235 A	02-10-1996
		NO 953109 A	30-09-1996
		US 5787986 A	04-08-1998
		US 5833000 A	10-11-1998
		US 5775425 A	07-07-1998
US 5501275 A	26-03-1996	US 5439058 A	08-08-1995
		US 5330005 A	19-07-1994
		AU 679711 B	10-07-1997
		AU 5790894 A	06-10-1994
		CA 2119316 A	06-10-1994
		NO 941182 A	06-10-1994
		EP 0619415 A	12-10-1995
US 4010802 A	08-03-1977	CA 1040094 A	10-10-1978
US 3815680 A	11-06-1974	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 97 30 7807

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-12-1998

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5501274 A	26-03-1996	EP 0735235 A	02-10-1996
		NO 953109 A	30-09-1996
		US 5787986 A	04-08-1998
		US 5833000 A	10-11-1998
		US 5775426 A	07-07-1998
US 5501275 A	26-03-1996	US 5439055 A	08-08-1995
		US 5330005 A	19-07-1994
		AU 679711 B	10-07-1997
		AU 5790894 A	06-10-1994
		CA 2119316 A	06-10-1994
		NO 941182 A	06-10-1994
		EP 0619415 A	12-10-1995
US 4010802 A	08-03-1977	CA 1040094 A	10-10-1978
US 3815680 A	11-06-1974	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82